



PROCEEDINGS OF THE 8TH WORLD CONGRESS ON RECENT ADVANCES IN NANOTECHNOLOGY (RAN '23)

March 23 - 25, 2023 | Lisbon, Portugal

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TABLE OF CONTENTS

Welcome Message from the Conference Chair.....	3
About RAN'23.....	4
Scientific Committee.....	5
Keynote Speakers.....	6
List of Papers	11
Sponsors	20
Journal Publication.....	21
RAN'24	22
Ethics & Malpractice	23
Contact Us	28

WELCOME MESSAGE FROM THE CONFERENCE CHAIR

On behalf of the International Academy of Science, Engineering and Technology (International ASET Inc.), the organizing committee would like to welcome you to the 8th World Congress on Recent Advances in Nanotechnology (RAN 2023).

RAN is aimed to become one of the leading international annual congresses in the field of nanotechnology. This congress will provide excellent opportunities to the scientists, researchers, industrial engineers, and university students to present their research achievements and to develop new collaborations and partnerships with experts in the field.

In the eighth meeting of this Congress, two plenary speakers and three keynote speakers will share their expertise in a wide spectrum of fields and applications. In addition, approximately 36 papers will be presented by professors, students, and researchers from across the world.

We thank you for your participation and contribution to the 8th World Congress on Recent Advances in Nanotechnology (RAN 2023). We wish you a very successful and enjoyable experience.

Dr. Wolfgang Ensinger

*Congress Chair and Proceedings Editor
RAN'23*

Dr. Josef Jampilek

*Congress Co-Chair and Proceedings Editor
RAN'23*

[Return to Top](#)

ABOUT RAN 2023

RAN is aimed to become one of the leading international annual congresses in the field of nanotechnology.

This congress will provide excellent opportunities to the scientists, researchers, industrial engineers, and university students to present their research achievements and to develop new collaborations and partnerships with experts in the field.

There are 2 conferences included in the RAN Congress:

ICNNFC 2023 - 8th International Conference on Nanomaterials, Nanodevices, Fabrication and Characterization

NDDTE 2023 - 8th International Conference on Nanomedicine, Drug Delivery, and Tissue Engineering

While each conference consists of an individual and separate theme, the 2 conferences share considerable overlap, which prompted the organization of this congress. The goal of this undertaking is to bring together experts in each of the specialized fields, and at the same time allow for cross pollinations and sharing of ideas from the other closely related research areas.

- **RAN** is an acronym for **R**ecent **A**dvances in **N**anotechnology.
- The proceedings is published in Ottawa, Canada.
- All papers were peer-reviewed
- The congress proceedings is published under an ISSN and ISBN number
- Each paper is assigned a unique DOI number by [Crossref](#)
- The conference proceedings is indexed by [Scopus](#) and [Google Scholar](#)
- The proceedings is permanently archived in [Portico](#) (one of the largest community-supported digital archives in the world)

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Return to Top

SCIENTIFIC COMMITTEE

We would like to thank the following for accepting to act as a member of the Scientific Committee for the RAN 2023 Congress:

Scientific Committee Members for ICNNFC'23

- **Dr. Toqeer Ahmed**, COMSATS University Islamabad, Pakistan
- **Dr. Daolun Chen**, Toronto Metropolitan University, Canada
- **Dr. Erik Díaz-Cervantes**, Universidad de Guanajuato, Mexico
- **Dr. Fengge Gao**, Nottingham Trent University, UK
- **Dr. Antonio Vicente Herrera Herrera**, Universidad de La Laguna, Spain
- **Dr. Byeong Hee Kim**, Kangwon National University, South Korea
- **Dr. Bilgin Kaftanoğlu**, University of Pardubice, Czech Republic
- **Dr. Dongyang Li**, University of Alberta, Canada
- **Dr. Rahul M. Mane**, Shivaji University, India
- **Dr. Petr Němec**, Atilim University, Turkey
- **Dr. Ram Prasad**, Mahatma Gandhi Central University, India
- **Dr. Jie Yang**, RMIT University, Australia
- **Dr. Mustafa Yavuz**, University of Waterloo, Canada
- **Dr. Hande Yondemli**, Selcuk University, Turkey

Scientific Committee Members for NDDTE'23

- **Dr. Osman Adiguzel**, Firat University, Turkey
- **Dr. Seongtae Bae**, University of South Carolina, USA
- **Dr. Todd Giorgio**, Vanderbilt University, USA
- **Dr. Jingjiao Guan**, Florida State University, USA
- **Dr. Josef Jampilek**, Comenius University, Slovakia
- **Dr. Guillermo Rus**, University of Granada, Spain
- **Dr. Alexandra Marques**, University of Minho, Portugal
- **Dr. Marta Sevieri**, Università degli Studi di Milano, Italy
- **Dr. Dejian Zhou**, Leeds University, UK

KEYNOTE SPEAKERS

The keynote information for the 8th World Congress on Recent Advances in Nanotechnology (RAN'23) is as follows:

Plenary Speakers



Dr. Emmanuel A. Ho
University of Waterloo, Canada
NDDTE'23 Plenary Speaker



Dr. Jie Yang
RMIT University, Australia
ICNNFC'23 Keynote Speaker

Keynote Speakers



Dr. Maria Luisa Di Vona
University of Rome Tor Vergata, Italy
ICNNFC'23 Keynote Speaker



Dr. Oleh Taratula
Oregon State University, USA
NDDTE'23 Keynote Speaker

NDDTE'23 PLENARY SPEAKER



Dr. Emmanuel A. Ho, University of Waterloo,
Canada

Topic of Plenary: Designing Next Generation
Drug Delivery Systems for the Prevention of
Sexually Transmitted Infections

[Return to Top](#)

Dr. Emmanuel Ho is currently an Associate Professor in the School of Pharmacy at the University of Waterloo and the theme lead for the Therapeutics & Theranostics section of the Waterloo Institute for Nanotechnology. His current research program is focused on the development and characterization of innovative nanomedicines, medical devices and biomaterials for imaging, treatment, and prevention of diseases including HIV/AIDS, cancer, and chronic wounds. Dr. Ho is the past President of the Canadian Chapter of the Controlled Release Society, the past Treasurer of the Canadian Society for Pharmaceutical Sciences (CSPS) and is currently an Associate Editor for Drug Delivery and Translational Research and the Journal of Pharmacy & Pharmaceutical Sciences. He was awarded the 2021 Leslie Dan Faculty of Pharmacy Leadership in Pharmaceutical Sciences Award, 2015 Association of Faculties of Pharmacy of Canada New Investigator Research Award and the 2014 GlaxoSmithKline / CSPS Early Career Award.

ICNNFC'23 PLENARY SPEAKER



Dr. Jie Yang, RMIT University, Australia
Topic of Plenary: Graphene Origami Enabled
Mechanical Metamaterials

[View Abstract](#)

[Return to Top](#)

Dr. Yang is a full professor in the School of Engineering, RMIT University, Australia. He obtained PhD degree in solid mechanics at Shanghai Jiao Tong University, China, in 2002 and was a postdoctoral research fellow at the University of Queensland, Australia before moving to City University of Hong Kong as a Research Fellow in late 2004 then a Lecturer in 2005. He joined RMIT University, Australia in late 2007 as a Lecturer where he was promoted to Professor in 2016. His main research interests include advanced composite structures, graphene enabled mechanical metamaterials, nanocomposites, advanced composite structures, structural stability and dynamics, smart structures and control, and nano/micro-mechanics. He is an author of over 350 papers including 260 journal papers which have so far attracted over 18300 Google Scholar citations with h-index 78. He is the Highly Cited Researcher (Cross Field) in 2019, 2020, 2021 by Clarivate Analytics and is named by Australian Research Magazine as Global Field Leader in Mechanical Engineering in 2020, Australia's Research Field Leader in Mechanical Engineering in 2019, 2020, 2021, and Australia's Research Field Leader in Structural Engineering in 2021. Prof Yang is the Editor-in-Chief of Engineering Structures (JCR Q1), Associate Editor of Mechanics Based Design of Structures and Machines, and the editorial board member of Mechanics of Advanced Materials and Structures, Thin-Walled Structures, International Journal of Structural Stability and Dynamics, Scientific Reports, Materials, and Shock and Vibration, etc.

NDDTE'23 KEYNOTE SPEAKER



Dr. Oleh Taratula, Oregon State University, USA

Topic of Keynote: Multifunctional Nanomedicine Platforms for Imaging and Treatment of Cancer and Other Diseases

[View Abstract](#)

[Return to Top](#)

Oleh Taratula received his Ph.D. in chemistry from Rutgers, The State University of New Jersey in 2008. After that, he completed his postdoctoral research with Professor Tamara Minko at Ernest Mario School of Pharmacy in 2011. Oleh Taratula is currently a Professor of Pharmaceutics in the College of Pharmacy at Oregon State University (OSU) and a co-director of the Center for Innovative Drug Delivery and Imaging. He is also an Affiliate Research Member of the Knight Cancer Institute and Adjunct Faculty in the Department of Biomedical Engineering, Oregon Health & Science University. The major focus of his research is the development of multifunctional nanoplatfoms for imaging and specific eradication of cancer, endometriosis, and other diseases. His research accomplishments have been recognized with various awards, including the 2020 AAPS Best Abstract Award, and the 2016 Richard T. Jones New Investigator Award. OlehTaratula has obtained four patents and published 53 peer-reviewed papers in many high-impact journals (ACS Nano – Impact Factor 18.0, Small – 15.1, and others). His papers have been cited more than 5,000 times (h-index: 32) and one patent has been licensed to a company. Since joining OSU in 2011, Oleh Taratula has raised over \$9 million in funding and currently holds three NIH grants (two R01, and R37).

ICNNFC'23 KEYNOTE SPEAKER



Dr. Maria Luisa Di Vona, University of Rome Tor Vergata, Italy

Topic of Keynote: Ionomers and Electrocatalysts for Anion Exchange Membrane Fuel Cells

[View Abstract](#)

[Return to Top](#)

Professor in Chemistry at the University of Rome Tor Vergata. Responsible of the International Laboratory “Ionomer Materials for Energy” at the Department of Industrial Engineering. Principal investigator of several Research Projects and Educational Projects. Italian coordinator of the Master Erasmus Mundus “Chemical Nano-engineering”. Invited professor at Aix-Marseille University, France and Nat. Inst. Mater. Sci. NIMS, Japan. Principal organizer of many international symposia. Research Interests: Synthesis of organic-inorganic materials. Development of ionic polymeric conductors. 190 international publications.

LIST OF PAPERS

The following papers were presented at the 8th World Congress on Recent Advances in Nanotechnology (RAN'23).

Nanomedicine

[The Accumulation of Upconverting Nanoparticles in Different Subtypes of Breast Cancer Cells](#)

Authors: Evelina Voronovic, Simona Steponkiene, Greta Jarockyte, Dominyka Dapkute, Vitalijus Karabanovas, Ricardas Rotomskis

[Immunomodulatory Nanoparticles as a Multimodal Approach to Attenuate Immune Dysregulation in Severe Inflammation and Sepsis](#)

Authors: Nhu Truong, Shruti Dharmaraj, Andrea Cottingham, Jacob Shaw, Jackline Joy Martin Lasola, Brianna Scotland, Ryan M. Pearson

[Assessment of Cytotoxicity of Gold Nanoparticles Functionalized With Brazilian Red Propolis in 2D And 3D Models of Urological Cancers](#)

Authors: Caroline E. A. Botteon, Robson L. F. Amaral, Letícia B. Silva, Priscyla D. M. Gaspari

LIST OF PAPERS

Nanotechnology and Drug Delivery

[A Novel, Rapid Diagnostic Molecular Method for SarsCov-2 Detection by Nanoprobes](#)

Authors: Pablo Cea-Callejo , Sonia Arca-Lafuente, Laura Benítez Rico, Ricardo Madrid

[Structure-Property Relationship in CaCO₃ for Developing pH-sensitive Drug Delivery Vehicles](#)

Authors: Daria Trushina, Tatiana Pallaeva, Alexander Mikheev, Roman Akasov, Tatiana Bukreeva

[Magnetic Oxygen-Loaded Nanodroplets: Role of Perfluorocarbon Core and Polymeric Coating in Magnetic Droplet Vaporization for Oxygen Release](#)

Authors: Simone Galati, Marta Vassallo, Alessandra Manzin, Adriano Troia

[Alternative Carriers in Drug Delivery Systems – Peptide Foldamers](#)

Authors: Monika Szefczyk, Juan Lizandra Pérez, Anna Szczepańska, Paulina Fortuna

LIST OF PAPERS

Virtual Session

Vibration Analysis of Nanoporous AAO Membrane by Using High-Frequency Excitation Technique in Electrochemical Reactor

Authors: Urte Cigane, Arvydas Palevicius

Applications of Biological Magnetic Nanoparticles in Nanobiotechnology

Authors: Juliana G. Ferreira, Vinavadini Ramnarain, Igor Taveira, Júlia de Castro, Rogerio Presciliano, Beatriz A. Vessalli, Dris Ihiawakrim, Ovidiu Ersen, Fernanda Abreu

Vibration Analysis of Nanoporous AAO Membrane by Using High-Frequency Excitation Technique in Electrochemical Reactor

Authors: Urte Cigane, Arvydas Palevicius

Anatase Nanoparticles for Raman Nanothermometry

Authors: Thomas Pretto, Marina Franca, Veronica Zani, Silvia Gross, Danilo Pedron, Roberto Pilot, Raffaella Signorini

Advanced Computational Modelling of Interface Properties

Authors: Konstantinos Kotsis

Optimization and Characterization of Curcumin Microemulsion Formulations with Aromatic Turmeronerich Extract

Authors: Beyza Sumeyye Aydin, Ali Asram Sagiroglu, Fatemeh Bahadori

LIST OF PAPERS

Virtual Session

[SIRNA Delivery Mediated By Inulin Based Polycations](#)

Authors: Carla Sardo, Carmela Tommasino, Tiziana Esposito, Giulia Auriemma, Rita Patrizia Aquino

[Innovative Phytodefense Colloidal Delivery System Based On Chestnut Spiny Bur Extract](#)

Authors: Tiziana Esposito, Francesca Sansone, Teresa Mencherini, Francesco Del Prete, Anna Lucia Cannoniere and Rita P. Aquino

[Numerical Analysis of Microstructures Thermal Formation in a Polymeric Material](#)

Authors: Justas Ciganas, Giedrius Janusas

[New Approaches to Improve PCL Performances as Biomaterial](#)

Authors: G. Auriemma, C. Tommasino, C. Sardo, R.P. Aquino

[Adsorption of Cations Using Graphene Oxide Loaded with Ionic Liquid: A Molecular Dynamic Simulation](#)

Authors: Soumaya Grira, Yara Gamaleldin ElGazar, Hadil Abu Khalifeh, Mohammed Alkhkeder

LIST OF PAPERS

Posters Session

Conformational Changes during DNA Mismatch Repair Studied by Vibrational Spectroscopy and Scanning Probe Microscopy

Author: Dawid Lupa

Bioactive Ureasil-Polyether Membranes for Glucose Controlled Release

Authors: Camila Garcia da Silva, João Augusto Oshiro Junior, Thúlio Wliandon Lemos Barbosa, Leila Aparecida Chiavacci

Positively-Charged Di-Block Copolymers for Delivery and Controlled Release of Nucleic Acids

Authors: Eliška Hrdá, Richard Laga, Ladislav Androvič

A Study on the Direct Conversion and Hydrogen Production of Low Concentration Carbon Dioxide Emissions Using DARM

Authors: Hyo Sik Kim, Ji-Hyeon Kim, Suk-Hwan Kang

Evaluation of Volatile Organic Compounds Removal Characteristics by Catalyst Combustion

Authors: Hyo Sik Kim, Hyun-Ji Kim, Suk-Hwan Kang

LIST OF PAPERS

Posters Session

Drug Delivery Systems for Bone Tissue Regeneration: Functionalized Porous Zirconia Scaffolds

Authors: Iwona Pudełko, Małgorzata Krok-Borkowicz, Karolina Schickle, Elżbieta Pamuła

Microparticles Based On Poly(Sebacic Acid) And Poly(3-Allyloxy-1,2-Propylene Succinate) As Azithromycin Delivery System

Authors: Karolina Knap, Konrad Kwiecień, Weronika Patuszyńska, Daria Niewolik, Dorota Ochońska, Alicja Kazek-Kęsik, Katarzyna Jaszcz, Monika Brzychczy-Włoch, Elżbieta Pamuła

Evaluating the Cytotoxicity of the Azo Polymer PAZO on ATCC TIB-208 Cell Lines

Authors: Ani Stoilova, Iliyan Manoylov, Petya Ganova, Yordanka Trifonova

Quercetin Delivery Systems for the Treatment of Burn Wounds

Authors: Anna Moskwik, Katarzyna Reczyńska-Kolman, Elżbieta Pamuła

LIST OF PAPERS

Posters Session

Hydrophobic Surface Fabrication of Metallic Materials

Authors: Woong Ki Jang, Yoo Su Kang, Young Ho Seo, Seok Min Kim, Shin Ill Kang, Byeong Hee Kim

Fabrication and Characterization of Encapsulated CNTSb₂Te₃ Thermoelectrical Hybrid Structu

Authors: Elmars Spalva, Krisjanis Buks, Jana Andzane, Loreta Brauna, Donats Erts

Delivery of Platinum-Based Drugs for Osteosarcoma Treatment via Graphene Oxide Nanoplatforms

Authors: Ludmila Žárská, Elena Giusto, Darren Fergal Beirne, Arianna Rossi, Giada Bassi, Andrea Ruffini, Monica Montesi, Diego Montagner, Václav Ranc, Silvia Panseri

LIST OF PAPERS

Nanomaterials Synthesis Characterization

[Nano-Lattice Engineering of Cu-Oxides via Flame Spray Pyrolysis: Challenges for Promoting Artificial Photosynthesis Performance](#)

Authors: Areti Zindrou, Maria Solakidou, Yiannis Deligiannakis

[Industrial-Scale H₂ Production From C1-Substrates At Near Ambient P,T: The Technology Of Nanohybrid Molecular Catalysts](#)

Authors: Christos Gatzouras, Konstantina Gravani, Maria Solakidou, Maria Louloudi

[First Hyperpolarizability of Carbonaceous Nanoparticles](#)

Authors: Sourav Saikia, Jyoti Dutta, and Puspendu K. Das

[Freeform Graphene Oxide-Quantum Dot Microstructures via Multiphoton Crosslinking](#)

Authors: Chun-Yu Lin, Shean-Jen Chen

[Synthesis and Characterization of Hydroxyapatite Nanoparticles for Environmental Applications](#)

Authors: Luis Ayala, Maribel Guzman, Betty C. Galarreta, Jose E. Herrera, Ya-Huei (Cathy) Chin, William Broomhead

LIST OF PAPERS

Nano biotechnology

Comparative Studies on Cytotoxicity of Gold Nanoparticles and Protein-Stabilized Fluorescence Gold Nanoclusters

Authors: Patrycja Gnacek, Anna Barbasz, Ditta Ungor, Agnieszka Czyżowska, Edit Csapó, Julia Maciejewska-Prończuk, Paulina Żeliszewska, Magdalena Oćwieja

Development of Acid-Functionalized Magnetic Nanoparticles and Their Efficacy in the Pre-treatment of Sugarcane Straw

Authors: : Avinash Prabhakar Ingle, Mangesh Moharil, Shreshtha Saxena, Sanjay Sakhare, Rameshwar Ghorade

SPONSORS

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[Return to Top](#)

JOURNAL PUBLICATION

Selected articles from the congress will be published in the following journal after a secondary review process:

[IJTAN - International Journal of Theoretical and Applied Nanotechnology](#)

The publication fee will be waived for papers that win the Best Paper Award.

This journal has adopted to the open-access model, meaning all free access to the journal's articles and content with no need for subscription. This ensures larger audience and therefore higher citations.

All published papers of IJTAN will be indexed by Google Scholar, Semantic Scholar, CAS and Mendeley. Additionally, they will be permanently archived in Portico (one of the largest community-supported digital archives in the world) and will be assigned unique DOIs.

[Return to Top](#)

RAN 2024

The 9th World Congress on Recent Advances in Nanotechnology (RAN 2024) location will be held in April, 2024 and the location will be announced soon.



For inquiries and to obtain further information on the congress, please visit the [website](https://2024.rancongress.com)

You can also email info@rancongress.com or call us

at: +1-613-834-9999

[Return to Top](#)

ETHICS & MALPRACTICE

At International ASET Inc., we take matters that relate to ethics in publishing very seriously. We believe that the peer-review publication process is a vital building block of academia, and its integrity must be maintained at all costs, which is why every article will be peer-reviewed by several experts in the field. Under peer-review, experts in the related fields are required to provide opinions and comments on the improvements of the submissions.

We are proud of our efforts towards abiding by the guidelines of ethics, integrity, and high standards in publishing.

Following are the ethics guidelines set by the organizers for the authors and the reviewers of the conference:

Scientific Committees

Scientific committees consisting of experts in the fields are established. The committees oversee the peer-review and publication process. To see the scientific committee members, please follow the link: [Scientific Committee](#)

Equality and Decisions

One or more reviewer, scientific committee member, or chair, (internal or external), are responsible for evaluating the relevance of the submitted manuscripts to the proceedings, technical and scientific merit, originally, and impact. These evaluations are to be carried out regardless of ethnicity, religion, gender, sexual orientation, political beliefs, and institutions. Successive to peer-review, the Chair has full authority and is solely responsible for the published content and the process thereof.

Confidentiality

Scientific committee member(s) and publishing staff may not disclose manuscripts or their content, directly or indirectly, to anyone other than individuals invited to review the manuscript (whether they accept or not), other reviewers of the same publications, and publishing staff.

Conflicts of Interest

Scientific committee member(s) and publishing staff may not utilize the contents of submitted manuscripts whether accepted or rejected, directly or indirectly for their own research purposes without prior written consent by the authors.

ETHICS & MALPRACTICE

Reviewers

Contribution to Decisions

In order for final decisions to be made regarding acceptance or rejection of papers, we rely on peer-review. Peer-review is the process of experts in the field reading, understanding, and objectively commenting on submitted papers. Through peer-review, scholars give back to the academic and scientific community by helping the chair(s) make decisions regarding manuscripts.

Promptness

Reviewers should promptly notify the chair(s) if they are unable or unqualified to carry out their reviewing duties. Reviewers should do their best to provide the reviews to the chair(s) as promptly as possible, and within the designated time-frame.

Acknowledgment of Source

The reviewer should notify the chair(s) if they find any similarities in the paper being reviewed and any other work that has been published previously.

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Reviewers must not share the contents of the manuscripts they receive for review, regardless of their decision to review or contents of the review, directly or indirectly, with anyone other than the person who has assigned the review.

Fairness

Reviewers should review manuscripts fairly and objectively, with supporting evidence or arguments, regardless of personal feelings or biases.

Conflicts of Interest:

Invited reviewers should immediately inform the chair(s) in case of a conflict of interest based on competitive, collaborative, personal, family, and other relationships with the authors or people involved in the work.

ETHICS & MALPRACTICE

Authors

Reporting Standards

The paper being submitted for the proceedings should be based on clear objective, discussion, and references. The findings, data, and the arguments being used in the paper should be accurate. It is author's responsibility to guarantee the authenticity of the data in the paper.

Authorship

Only persons who have significantly contributed to the work and the manuscript can be named authors on a paper. These contributions include the idea/concept, design, experiments, evaluation, analysis, drafting or revision of the manuscript, and others. Authors must all have agreed to be named as such and for the manuscript to be submitted. Anyone who has contributed based on the above, but the level of contribution is not significant, may appear in the acknowledgement section of the manuscript.

Acknowledgement of Source

Acknowledgement to other's work being used in the paper must be given at all times. Authors of the paper should give comprehensive credit where it is necessary, by citing the work, they use for supporting their own research.

Accuracy, Originality, and Plagiarism

Authors should describe their work and the results of their work accurately and in full. The level of provided accuracy and detail should be such that a reader can replicate the work independently. Inaccurate, incomplete, fraudulent, and misleading statements are considered unacceptable and unethical. Direct or indirect use of other people's work is not allowed, unless properly cited. Previous works that have influenced the current work should also be cited. Presenting someone else's work as one's own is strictly prohibited and is considered plagiarism.

ETHICS & MALPRACTICE

Data and Material

Authors are encouraged to share their data, software, or other sharable material online, provided copyright and ownership laws surrounding that particular project permit. Authors may also be asked to share such material with the chair(s), and/or reviewers, and must be willing to do so if asked.

Dual Submissions

Submitting a manuscript to more than one venue (conference, journal, etc) simultaneously is not allowed. Presenting previously published work to be considered as a new submission, without a significant new interpretation or analysis, is prohibited.

Conflicts of Interest

Authors must notify the chair(s) at the time of submission, if any factor outside the scope of the research has influenced any step of the work and manuscript writing. Examples of such factors include but are not limited to funding, grants, advisory and consultancy, stock ownership, current or past employment, and memberships, among others. All funding sources should be disclosed in the manuscript.

Animal and Human Subjects

Works involving human and/or animal subjects must ensure that the work has abided by institutional guidelines, and pre-approved by required bodies. Moreover, consent must be acquired from participants, and privacy of subjects must be ensured. All of the above must be specified with clear statements in the manuscript.

Hazardous Material

It should clearly be identified in the manuscripts if the works have involved hazardous chemicals and material, or devices that can be harmful.

Reporting of Mistakes, Errata, and Retractions

If an author identifies a major error in a published paper, he/she must immediately inform the publisher. Regardless of whether a significant error is reported by the authors of the work or other readers, authors are obligated to take the necessary steps to correct the issue. It is decided on a case-by-case basis whether an erratum will be submitted to notify future readers of the error and correction, or whether the paper will be retracted.

Unethical/plagiarism issues mostly result in a retraction, while unintended mistakes will mostly result in the publication of an erratum.

ETHICS & MALPRACTICE

Publisher

Errata and Retractions

The publisher takes the necessary steps to prevent mistakes, academic and scientific misconduct, and unethical behavior, both intended and unintended. When mistakes are reported, the publisher works with chair(s) and authors to publish an erratum clarifying the issue. In cases where the mistakes are severe and significant, the paper might be retracted. If unethical behavior, plagiarism, academic and scientific misconduct, or other such activities are proven to have taken place by an author or authors, the publisher will retract the paper.

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Ownership and Management:

This conference-proceedings is managed and operated by the International ASET (International Academy of Science, Engineering, and Technology) and Avestia Publishing (the publishing arm of ASET).

Schedule:

This conference proceeding accompanies the conference, meaning a new proceedings will be published every year for the corresponding annual conference of this series.

CONTACT US

The 8th World Congress on Recent Advances in Nanotechnology (RAN'23) consist of 2 conferences. You can contact each conference using the information below.

**IC
NNFC**'23

8th International Conference on Nanomaterials,
Nanodevices, Fabrication and Characterization

Email: info@icnnfc.com

Website: <https://2023.icnnfc.com>

NDDTE
'23

8th International Conference on Nanomedicine,
Drug Delivery, and Tissue Engineering

Email: info@nddte.com

Website: <https://2023.nddte.com>

For inquiries and to obtain further information on the congress, please visit the [website](#)

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[Return to Top](#)